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LAYER HOUSEICULTURE

15,000 BIRDS

DEC 2 °77







This modern poultry house plan, developed at Pennsylvania State University, has sufficient versatility to justify nationwide distribution. It can be built to house 15,000 laying hens.

This layer house is enclosed and windowless, which enables the producer to control the inside environment by regulating the ventilation rate and supplemental heat input.

Insulating and ventilating systems will depend on the clamatic conditions of the area where the structure is to be built. The interior of the laying house should be so arranged and equipped that both the hens and the eggs can be cared for with a minimum of time and labor.

The basic design is a 41-foot x 282-foot building with exposed roof framing of wood on the interior. The roof is supported by 4 x 4 pressure-treated posts 12 feet on centers centrally located between outer walls of the structure. Exterior wall is a combination of post and stud frame construction. The post frame wall has 4 x 4 pressure-treated wood posts spaced 5 feet, 2 inches on centers. A labor-saving idea here is to bore the post holes, then pour concrete footings in the holes to a level below the frostline. The posts are then anchored to the footing and backfilled.

The dry storage and egg room section of the layer house is of stud frame construction, on a concrete block foundation. The exterior metal siding is fastened to wood girts that are anchored to 2 x 4 studs placed 2 feet on centers. Glass fiber, batt or blanket, insulation between the studs is covered with a 4-mil polyethylene film vapor barrier before applying interior surfaces with %-inch exterior type AC grade plywood.

Both sections of the layer house have a 4-inch concrete floor constructed over an 8-inch well-tamped gravel fill. Before starting construction, consult your local health and building code authorities.

Complete working drawings may be obtained from the Extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. Your request will be forwarded to the correct university.

ORDER PLAN NO. 6189, LAYER HOUSE, 15,000 Birds.

Washington, D.C.

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